

LISTING OF CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (PREVIOUSLY PRESENTED) A simultaneous electrochemical assay device comprising a cell adapted to hold a sample, said cell having a surface having a plurality of analyte binding areas, each of said analyte binding areas having a different specific analyte binding substrate; and a plurality of working electrodes adapted to quantitatively measure enzymatic reaction product, each working electrode adjacent to one analyte binding area and separated from the nearest adjacent analyte binding area by a distance and a common reference electrode for said plurality of working electrodes wherein said device does not have means to mix a sample in said cell.
2. (PREVIOUSLY PRESENTED) The device claimed in claim 1 wherein said binding substrates each comprise a plurality of different analyte specific proteins.
3. (PREVIOUSLY PRESENTED) The device claimed in claim 1 wherein said binding substrates each comprise a different antigen.
4. (PREVIOUSLY PRESENTED) The device claimed in claim 1 wherein said binding substrate comprises a different antibody.

5. (PREVIOUSLY PRESENTED) The device claimed in claim 1 further comprising at least one auxiliary electrode in said cell.

6. through 9. (WITHDRAWN)

10. (CANCELED)

11. (PREVIOUSLY PRESENTED) ~~A simultaneous~~ An electrochemical assay device comprising a cell adapted to hold a sample and simultaneously test multiple different analytes, said cell having a surface having a plurality of analyte binding areas, each of said analyte binding areas having a different specific analyte binding substrate; and a plurality of working electrodes and each working electrode adjacent to one analyte binding area and separated from the nearest adjacent analyte binding area by a distance, all of said binding areas coated with a single quiescent solution containing substrate reactive with enzymes bonded to analyte binding areas wherein said device does not have means to mix a sample in said cell.

12. (NEW) The assay device claimed in claim 11 wherein said device has a common reference electrode for said plurality of working electrodes.